BRUHAT BANGALORE MAHANAGARA PALIKE

Detailed estimate for the work of :- Rain water harvesting sump in Govt Model School [illegible] in Ward No.18

Sl No	Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount
1	**Earth work excavation** for foundation of buildings, culverts, water supply, sanitary lines and electrical conduits either in pits or in trenches, 1.5m and above in width, **in ordinary soil**, exceeding 1.5m in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with all lead upto 50m after breaking of clods complete as per specifications.(P.No.5, I.No.2.4)								
	Basic Rate 180.00								
	Conveying charges 87.80								
	267.80								
	6% area weightage 16.06								
	283.86								
	Sump Tank	1	3.00	2.50	2.00	**15.00**			
					Total	**15.00**	**283.86**	**Cum**	**4258.00**
2	Providing and laying in position **plain cement concrete of mix 1:4:8** using 40mm and down size graded granite metal machine mixed, concrete laid in layers not exceeding 15cms . Thick, well compacted in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. (P-12 I.No.4.3)								
	Basic Rate 3101.00								
	diff cement cost =1.7Qtl*80 rs/qtl 136.00								
	3237.00								
	Area Weightage @ 6% 194.22								
	Total 3431.22								
	Sump Tank Bed	**1**	3.00	2.50	0.15	**1.13**			
	All round sump	**1**	13.40	0.60	0.15	**1.21**			
						2.33	**3431.22**	**Cum**	**7999.00**
3	Providing and laying in position plain cement concrete mix 1:2:4 using 20mm and down size graded granite machine mixed concrete laid in layers not exceeding 15cms thick well compacted in foundation plinth and cills including cost of all materials labour HOM of machinery curing complete as per specifications (Page No.12, Item No. 46)								
	Basic Rate 4063.00								
	diff cement cost =3.2Qtl*80 rs/qtl 256.00								
	4319.00								
	Area Weightage @ 6% 259.14								

Sl No	Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount
4	Providing and laying in position **reinforced cement concrete of nominal mix 1:1.5:3 (M20)** with 20mm and down size graded granite metal, machine mixed, concrete laid in layers not exceeding 15 cms thick, vibrated for R.C.C.beams,columns of all sizes in foundation plinth and superstructure ground floor level for roof slabs, staircase,lintels, columns, including cost of all materials, labhour, HOM of machinery, curing complete as per specifications. (P.No.13,I.No.4.17)								
	Basic Rate	4539.00							
	diff cement cost =4.00Qtl*80 rs/qtl	320.00							
		4859.00							
	Area Weightage @ 6%	291.54							
	Total	**5150.54**							
	Sump tank roof	**1**	3.00	2.50	**0.15**	**1.13**	**5150.54**	**Cum**	**5795.00**
5	Providing **TMT steel reinforcement for RCC work** including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wiere and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials labour HOM of machinery complete (P-16 I No. 4.46)								
	Consider 100 kg per Cum				**Total**	**1.13**			
						1.13	**5730.36**	**Qtl**	**6447.00**
	Basic Rate	5406.00							
	Area Weightage @ 6%	324.36							
	Total	**5730.36**							
6	**Providing and removing centering, shuttering,** strutting, propping etc., and removal form work for flat surface such as suspended floors, roofs, landings, balconies and like, thickness upto 200mm including cost of materials, labhour complete as per specification.(P.No.14,I.No.4.29)								
	Basic Rate	220.00							
	Area Weightage @ 6%	13.20							
	Total	**233.20**							
	For RCC roof	**1**	3.00	2.50		**7.50**			
						7.50	**233.20**	**Sqm**	**1749.00**
7	Providing and constructing ~~non-load bearing~~ Solid Concrete wall with **cement concrete blocks** with compressive strength not less than 35kg/sqm with cement mortar 1:4,(Jamb,closer blocks) with blocks of size **40x20x20cms**.(lxbxh) confirming to I.S: 2185/1965 in superstructure including cost of materials, labhour charges, scaffolding, curing complete as per specifications.(P.No.24, I.No.5.27).								
		1	10.20		2.00	20.40			
						20.40	**627.10**	**Sqm**	**12793.00**
	Basic Rate	586.00							

Sl No	Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount
	diff cement cost =0.07Qtl*80 rs/qtl	5.60							
		591.60							
	Area Weightage @ 6%	35.50							
	Total	**627.10**							
8	Providing and fixing M.S. Grill work for windows and ventilator weighing 21 kg/sqm using M.S.Flats or M.S. square rods or combination of MS flats and steel sections and welding the same to required pattern with a coat of red lead primer cost of materials fixtures labour and HOM of machinery specificatiosn (Page 31, Item No.7.9)								
	For Sump	1	0.60	0.60		0.36			
	Consider 21 kg per one sqm		21	X	**0.36**	**7.56**	**71.02**	**Kg**	**537.00**
	Basic Rate	67.00							
	Area Weightage @ 6%	4.02							
	Total	**71.02**							
9	Providing 20mm thick cemement plaster in single coat with cement mortar 1:3, stone masonry and concrete surface including rounding off corners wherever required smooth rendering providing and removing scaffolding including cost of materials labour curing complete as per specifications (Page No.98, Item No. 15.18)								
	walls	1	9.40	2.00		18.80			
	Bed	1	2.60	2.10		5.46			
						24.26	**181.05**	**Sqm**	**4393.00**
	Basic Rate	162.00							
	diff cement cost =0.22bagl*40 rs/bag	8.80							
		170.80							
	Area Weightage @ 6%	10.25							
	Total	**181.05**							
10	Extra for providing and mixing water proofing compound in cement plaster for brick masonry work at one kg per bag or in proportion reconneded by the manufacturer for cement mortar 1:3, 20MM TH COST OF materials complete as per specifications								
	Qty vide item No. 9					24.26	**11.66**	**Sqm**	**283.00**
	Basic Rate	11.00							
	Area Weightage @ 6%	0.66							
	Total	**11.66**							
11	Providing and fixing on wall surface 4.0kg /Sq.cm H.D.P.E. rain down water pipes 90mm outer dia approved make and brand with necessary specials like shoes, bends and offsets fixed with iron clamps, wall plugs screws, including cost of materials, labour, complete as per specifications (Page No. 42, item No. 8.18)								
		1.00	30.00			**30.00**			
						30.00	**342.38**	**M**	**10272.00**

Sl No	Description of work	No	Dimensions L	B	D	Quantity	Rate	Unit	Amount
	Basic Rate	323.00							
	Area Weightage @ 6%	19.38							
	Total	**342.38**							
12	Providing and fixing chorinated poly venyl cholride (CPVC) pipes conforming to IS 15778 having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fitting including fixing the pipe with clamp at 1.00 mtr spacing this includes jointing of pipes and fittings with one step CPVC slovent cement and the cost of cutting chases and making good the same including testing of joints complete 20mm nominal Od pipes (Page No. 86, Item No 13.86.2)								
	Basic Rate	170.00							
	Area Weightage @ 6%	10.20							
	Total	**180.20**							
		1	30.00			30.00			
					Total	30.00	180.20	M	**5406.00**
13	Construction of brick masonry inspection chamber 450x450mm and 450mm depth (clear inside dimension for single pipes line using table maoulded non-modular bricks of class designation 50 in CM 1:5 C.I. Cover with frame (light duty) 450x450mm (page No.64, Item No.11.50.2)								
	Basic Rate	3492.00							
	Area Weightage @ 6%	209.52							
	Total	**3701.52**							
			2			2.00	3701.52	Each	**7404.00**
14	Providig and fixing rain water filters Market rate					2.00	8000.00	Each	**16000.00**
15	Providing 1 HP Motor including fixing etc., complete					1.00	5000.00	LS	**5000.00**
16	For Electrical works							LS	**6000.00**
17	Miscellaneous and unforeseen charges etc.L.S								**328.00**
							TOTAL AMOUNT		**100000.00**

ADMINISTRATIVELY SANCTIONED FOR
Rs. One lakh only
Under Emergency Reserve funds
P0541
Registered as EE(H) vide No. 417
Subject to Conditions in Enclosed Memo No AS/535/11-12 Dt. 11/8/2011
JE / AE
Exe. Engineer (H)

Executive Engineer,
Hebbal Division,
Bruhat Bangalore Mahanagara Palike

Certificate:

1. The work spot has been inspected and found to be necessary
2. The work spot comes under BMP Limits
3. The provisions made in the estimate are necessary and minimum
4. The estimate is based on CSR of 2010-11

Assistant Engineer
Ward No. ~~2018~~

Assistant Executive Engineer
Hebbal Sub division
B B M P

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Under Emergency reserve fund
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Registered as EE(H) vide No. 417
Subject to conditions in enclosed memo
No JS/417/11-12 Dt. 12/8/2011
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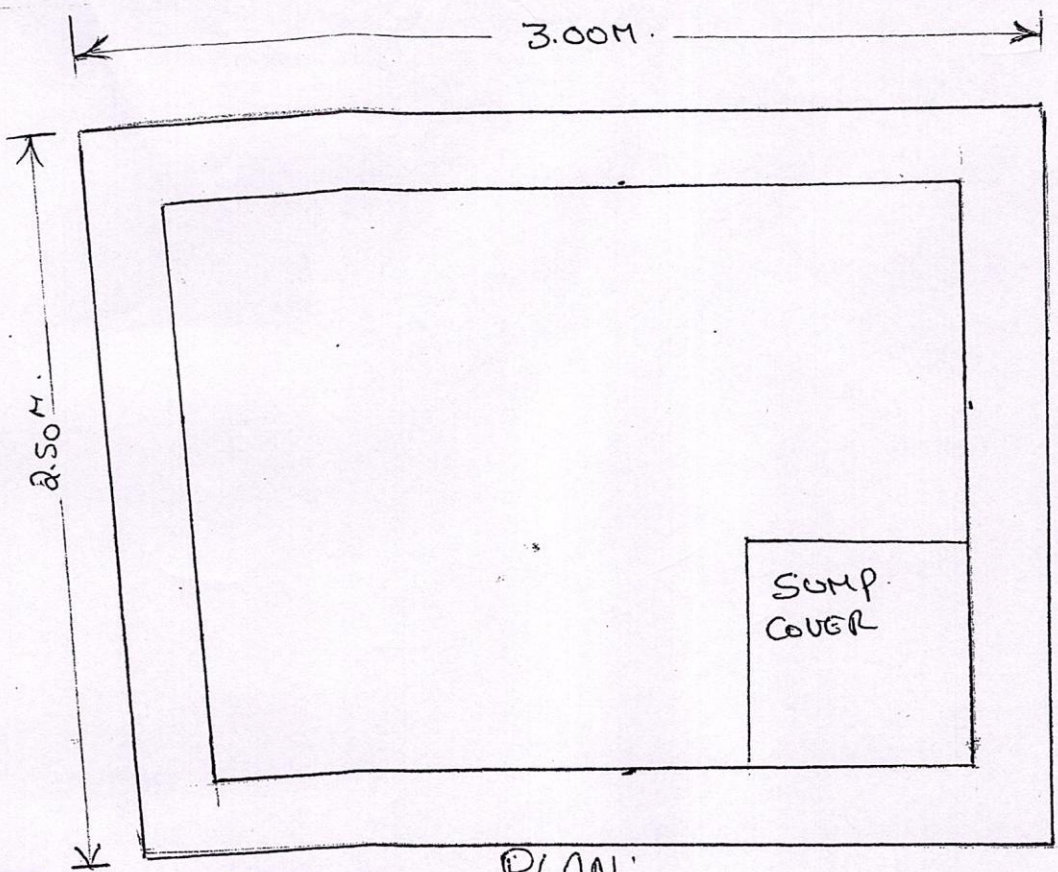
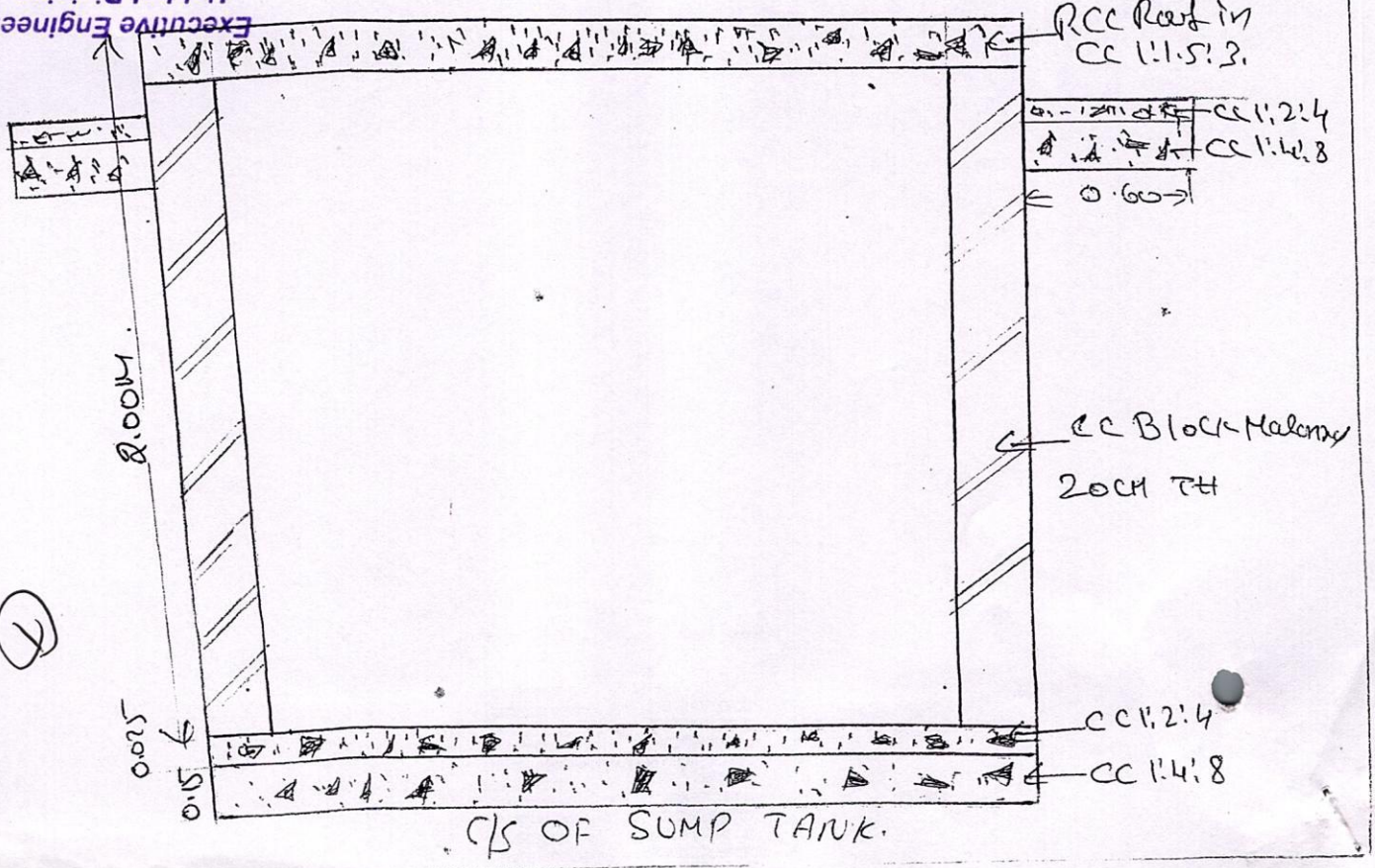
E.E(H.)

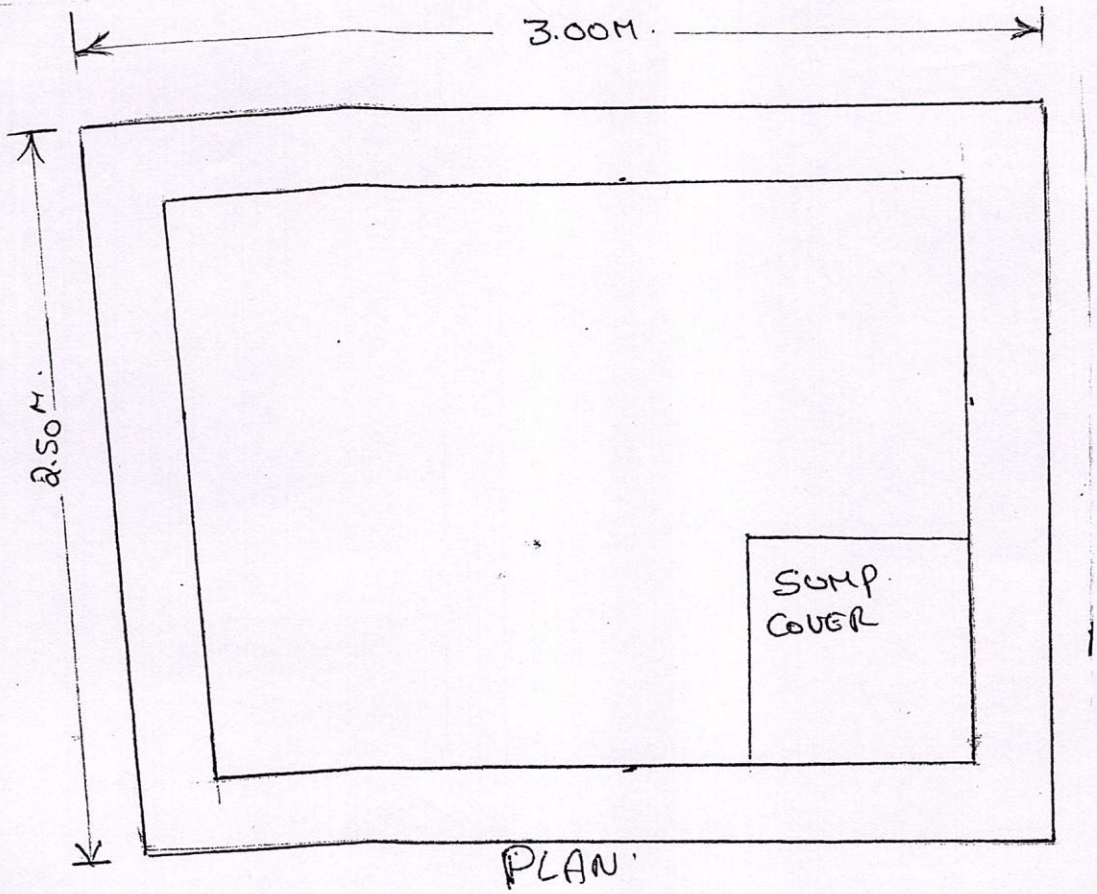


PLAN

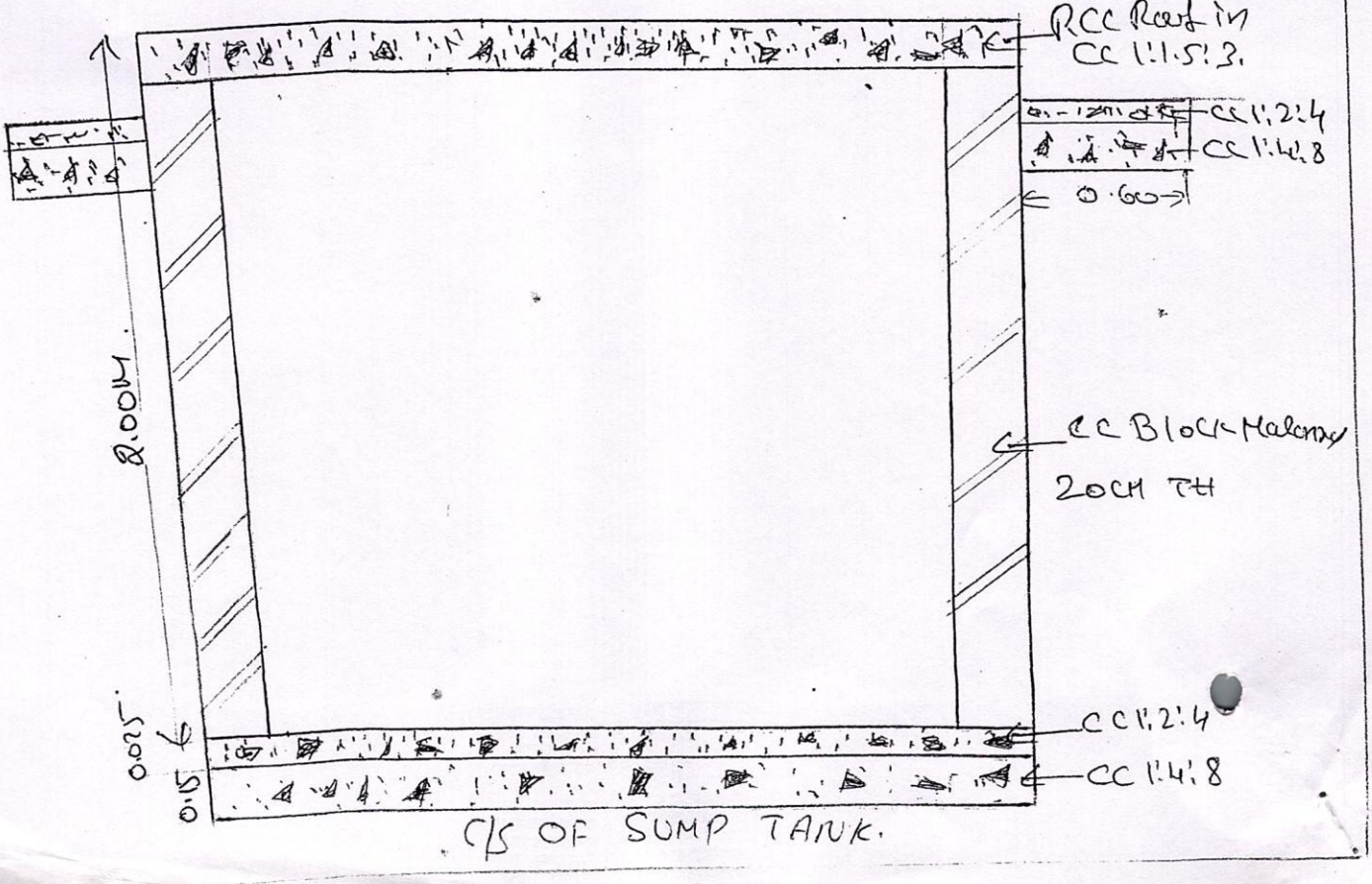
Executive Engineer,
Hebbal Division,
Bruhat Bangalore Mahanagara Palike



C/S OF SUMP TANK.



PLAN



C/S OF SUMP TANK.